Mr. Joel M. Hubbell

Instrumental in developing subsurface probes and measuring equipment

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Education
Mr. Joel M. Hubbell received his B.S. in Geology from Idaho State University in 1976, and his M.S. in Hydrology from the University of Idaho in 1981.

Experience and Achievements
Mr. Hubbell is an advisory scientist at the Idaho National Laboratory, where he has worked since 1985. Prior to joining the INL, he was a water resource specialist for the New Mexico Environmental Improvement Division for three years.

Mr. Hubbell has 20 years' experience in leading and conducting investigations of subsurface flow of hazardous and radioactive wastes from the land surface through the vadose zone and into groundwater. He has submitted 80 invention disclosures in the past 15 years. He holds 21 United States patents in the field of subsurface instrumentation. He is a Professional Geologist and member of the Association of Ground Water Scientists and Engineers, the American Society of Testing Engineers and the American Geophysical Union. In March 2003, Mr. Hubbell received the Lifetime Award in Inventorship from the INL, recognizing his ten patents in the area of groundwater research, monitoring and sampling. He was named a finalist for Battelle Memorial Institute Inventor of the Year Award in 2004 for the INL.

R&D 100 Awards
Advanced Tensiometer - 1997
Geologic and Environmental Probe System (GEOPS) - 2004

INL'S LIFETIME ACHIEVEMENT AWARD FOR INVENTORSHIP

Patents

- U.S. Patent 5,481,927 - Vapor Port and Groundwater Sampling Well
- U.S. Patent 5,520,248 - Method and Apparatus for Determining the Hydraulic Conductivity of Earthen Material
- U.S. Patent 5,644,947 - Tensiometer and Method of Determining Soil Moisture Potential in Below-Grade Earthen Soil
- U.S. Patent 5,758,538 - Tensiometer and Method of Determining Soil Moisture Potential in Below-Grade Earthen Soil
- U.S. Patent 5,915,476 - Monitoring Well
- U.S. Patent 5,969,242 - Isobaric Groundwater Well
- U.S. Patent 6,289,725 - Field Matric Potential Sensor
- U.S. Patent 6,308,563 - Vadose Zone Isobaric Well
- U.S. Patent 6,405,588 - Monitoring Well
- U.S. Patent 6,539,780 - Self-Compensating Tensiometer and Method
- U.S. Patent 6,609,434 - Method of Retrieving a Liquid Sample, a Suction Lysimeter, a Portable Suction Lysimeter, a Lysimeter System, and a Deep Lysimeter
- U.S. Patent 6,772,621 - Tensiometer Methods and Apparatus
- U.S. Patent 6,826,972 - Lysimeter Methods and Apparatus
- U.S. Patent 6,920,780 - Tensiometer, Drive Probe for Use with Environmental Testing Equipment, and Methods of Inserting Environmental Testing Equipment into a Sample
- U.S. Patent 6,986,281 - Exfiltrometer Apparatus and Method for Measuring Unsaturated Hydrologic Properties in Soil